

IN THE CLAIMS:

1. (Currently Amended) A mechanical crayon pen with an internal cartridge for multiple crayon sticks comprising:

a transparent barrel (10) having an open top (12), a bottom tip (11), an inner diameter, an outer diameter and an inner surface;

multiple longitudinal grooves (14) are defined on the inner surface of the transparent barrel (10);

a thrust device (20) mounted inside the transparent barrel (10) and having an inner tube (21) movably mounted inside the transparent barrel (10), wherein the inner tube (21) has an outer surface, a top end, a bottom end and an outer diameter smaller than the inner diameter of the transparent tube (10) so that a space (13) is formed between the transparent barrel (10) and the inner tube (21) to hold the multiple crayon sticks;

a hollow shaft (24) having a top end pressed into the bottom end of the inner tube (21) and a bottom end;

a clutch ring (23) mounted at the bottom end of the hollow shaft (24) and accommodated at the bottom tip (11) in the transparent barrel (10); and

a spring (22) mounted around the shaft (24) between the bottom end of the inner tube (21) and the clutch ring (23); and

a thrust actuator (30) detachably mounted on the open top (12) of the transparent barrel (10) and having a cap (32) with a central hole (321) rotatably mounted on the open top (12) of the transparent barrel (10); and

a pushbutton (31) detachably and movably mounted on the cap (32) to push

the inner tube (21) downward.

2. (Canceled)

3. (Original) The mechanical crayon pen with an internal cartridge for multiple crayon sticks as claimed in claim 1, wherein the push button (31) has:

a head (314);

a column (313) with a bottom face attached under the head (314);

an abutting shaft (312) formed on the bottom face of the column and protruding into the inner tube (21) to push the inner tube (21) downward; and

a recoiling spring (34) mounted around the abutting shaft (312).

4. (Original) The mechanical crayon pen with an internal cartridge to hold multiple crayon sticks as claimed in claim 2, wherein the push button (31) has:

a head (314);

a column (313) with a bottom face attached under the head (314);

an abutting shaft (312) formed on the bottom face of the column and protruding into the inner tube (21) to push the inner tube (21) downward; and

a recoiling spring (34) mounted around the abutting shaft (312).

5. (Original) The mechanical crayon pen with an internal cartridge to hold multiple crayon sticks as claimed in claim 1, wherein the mechanical crayon pen further has a dividing wall (15) formed within the space (13).

6. (Currently Amended) The mechanical crayon pen with an internal cartridge to hold multiple crayon sticks as claimed in claim 1 2, wherein the mechanical crayon pen further has a dividing wall formed within the space (13).

7. (Original) The mechanical crayon pen with an internal cartridge to hold multiple crayon sticks as claimed in claim 5, wherein the dividing wall (15) has an outer surface and multiple longitudinal grooves (152) are defined on the outer surface of the inner tube (21).

8. (Original) The mechanical crayon pen with an internal cartridge to hold multiple crayon sticks as claimed in claim 7, wherein the cap (32) further has an access (322) formed in the cap (21) over the space (13) and a clip (324) extending downward from edge of the cap (32).